

Abstract

Sub 15 → The invention relates to a Resin Transfer Moulding (RTM) process for manufacturing fibre-reinforced components (31) with at least one closed or undercut space (35). A two-part mould with a cavity is charged with reinforcing fibres and a shape-stable supporting core of wax that can be melted out of the cavity. The core is produced from a cast preform by means of at least one shape-forming step. A plastic matrix capable of flowing is injected into the cavity of the closed mould forming a shaped fibre-composite mass and hardened to give the fibre-reinforced component (31). The shape-stable fibre-reinforced component (31) is removed from the mould and subjected to tempering. During tempering the core is melted and drained off from the fibre-reinforced component - leaving behind a closed or undercut space (35) - and the molten core material is cast to provide a new preform (1).

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Fig. 1f

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